





Scouts participating in a Scoutmaster Bucky merit badge opportunity, whether online or in person, should consider using the Soil and Water Conservation merit badge pamphlet for discovery and knowledge, along with the class preparation pages for clarifications, insights, and expectations.

https://scoutmasterbucky.com/merit-badges/soil-and-water-conservation/soil-and-water-conservation-pamphlet.pdf

https://scoutmasterbucky.com/merit-badges/soil-and-water-conservation/soil-and-water-conservation-cpp.pdf

REQUIREMENT	/I KEQUIKES	COUNSELOR AF	PROVAL.

REQUIREMENT 1a:	Tell what soil is.
Notes:	
REQUIREMENT 1a:	Tell how soil is formed.
Notes:	
DECUIDEMENT 4b.	Describe three kinds of sail. Tall how they are different
REQUIREMENT 1b:	Describe three kinds of soil. Tell how they are different.
SOIL TYPE #1:	
Notes:	





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SOIL TYPE #2:	
Notes:	
SOIL TYPE #3:	
Notes:	
REQUIREMENT 1c:	Name the three main plant nutrients in fertile soil. Tell how they can be put back
	when used up.
FERTILE SOIL PLANT NU	TRIENT #1:
Notes:	







FERTILE SOIL PLANT NU	TRIENT #2:
Notes:	
FERTILE SOIL PLANT NU	TRIENT #3:
Notes:	
REQUIREMENT 2a:	Define soil erosion.
Notes:	Define son crosion.
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REQUIREMENT 2b: Tell why soil erosion is important and how it affects you.	
Notes:	
DECUMPENTAL THE TENT OF A	
REQUIREMENT 2b: Tell how soil erosion affects you.	
Notes:	
REQUIREMENT 2c: Name three kinds of soil erosion. Describe each.	
SOIL EROSION #1:	
Name:	
Notes:	





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SOIL EROSION #2:
Name:
Notes:
SOIL EROSION #3:
Name
Name:
Name.
Notes:







REQUIREMENT 2d:	Take pictures of or draw two kinds of soil erosion.
Notes 1:	
Notes 2:	







REQUIREMENT 3a:	Tell what is meant by conservation practices.
Notes:	
REQUIREMENT 3b:	Describe the effect of three kinds of erosion-control practices.
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EROSION-CONTROL PRA	
EROSION-CONTROL PRA	
Name:	
Name:	







EROSION-CONTROL PRACTICE #2:
Name:
Notes:
EROSION-CONTROL PRACTICE #3:
Name:
Name.
TVAITIO.
Notes:







REQUIREMENT 3c:	Take pictures of or draw three kinds of erosion-control practices.
Notes 1:	
Notes 2:	
Notes 3:	
Notes 3.	







REQUIREMENT 4a:	Explain what a watershed is.
Notes:	
REQUIREMENT 4b:	Outline the smallest watershed that you can find on a contour map.
This reg	uirement must be reviewed with your merit badge counselor.
11110104	BE PREPARED!
REQUIREMENT 4c:	Outline, as far as the map will allow, the next larger watershed that also has the
	smallest one in it.
This req	uirement must be reviewed with your merit badge counselor.
-	BE PREPARED!
DECLUDEMENT 4.1	
REQUIREMENT 4d:	Explain what a river basin is.
Notes:	







REQUIREMENT 4d:	Tell why all people living in a river basin should be concerned about land and water use in the basin.
Notes:	
REQUIREMENT 4e:	Explain what an aquifer is.
Notes:	
REQUIREMENT 4e:	Explain why an aquifer can be important to communities.
Notes:	







REQUIREMENT 5a:	Make a drawing to show the hydrologic cycle.







REQUIREMENT 5b: Demonstrate at least two of the following actions of water in relation to soil: percolation, capillary action, precipitation, evaporation, transpiration.

This requirement must be reviewed with your morit badge counselor

	BE PREPARED!	
Notes:		







REQUIREMENT 5c:	Explain how removal of vegetation will affect the way water runs off a watershed.
Notes:	
REQUIREMENT 5d:	Tell how uses of forest, range, and farmland affect usable water supply.
Forest:	
Range:	
Farmland:	







REQUIREMENT 5e:	Explain how industrial use affects water supply.
Notes:	
DECLUDEMENT Co.	Tall what is propert by "wester malletian "
REQUIREMENT 6a:	Tell what is meant by "water pollution.".
Notes:	







REQUIREMENT 6b:	Describe common sources of water pollution and explain the effects of each.
Notes:	
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REQUIREMENT 6c:	Explain the biochemical	terms: pri oxygen dei	imary mand.	water	treatment,	secondary	waste	treatment,	and
Primary Water Treatment	t:								
Secondary Water Treatm	ent:								
Biochemical Oxygen Der	mand:								







REQUIREMENT 6d:	Make a drawing showing the principles of complete waste treatment.







DO TWO OF THE FOLLOWING (7A, 7B, 7C, 7D, 7E, or 7F) FOR REQUIREMENT 7

1. An agricultural experiment 2. A managed forest or woodlot, range, or pasture 3. A wildlife refuge or a fish or game management area 4. A conservation-managed farm or ranch 5. A managed watershed 6. A waste-treatment plant 7. A public drinking water treatment plant 8. An industry water use installation 9. A desalinization plant. PLACE #1: Name and Location: Date and Location Visited:	REQUIREMENT 7a:	Make a trip to TWO of the following places. Write a report of more than 500 words about the soil and water and energy conservation practices you saw.
3. A wildlife refuge or a fish or game management area 4. A conservation-managed farm or ranch 5. A managed watershed 6. A waste-treatment plant 7. A public drinking water treatment plant 8. An industry water use installation 9. A desalinization plant. PLACE #1: Name and Location: Date and Location Visited:		
4. A conservation-managed farm or ranch 5. A managed watershed 6. A waste-treatment plant 7. A public drinking water treatment plant 8. An industry water use installation 9. A desalinization plant. PLACE #1: Name and Location: Date and Location Visited:		
5. A managed watershed 6. A waste-treatment plant 7. A public drinking water treatment plant 8. An industry water use installation 9. A desalinization plant. PLACE #1: Name and Location: Date and Location Visited:		
6. A waste-treatment plant 7. A public drinking water treatment plant 8. An industry water use installation 9. A desalinization plant. PLACE #1: Name and Location: Date and Location Visited:		
7. A public drinking water treatment plant 8. An industry water use installation 9. A desalinization plant. PLACE #1: Name and Location: Date and Location Visited:		
8. An industry water use installation 9. A desalinization plant. PLACE #1: Name and Location: Date and Location Visited:		
9. A desalinization plant. PLACE #1: Name and Location: Date and Location Visited:		
PLACE #1: Name and Location: Date and Location Visited:		
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	Name and Location:	
Notes:	Date and Location Visited	d:
Notes:		
Notes:		
	Notes:	





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PLACE #2:
Name and Location:
Date and Location Visited:
Notes:







REQUIREMENT 7b:	Plant 100 trees,	bushes,	and/or vines	for a good purpose.

	osing this requirement option, you will need to share proof with your counselor This requirement must be reviewed with your merit badge counselor. BE PREPARED!
Notes:	
REQUIREMEN	I I '
	using suitable grasses or legumes alone or in a mixture. osing this requirement option, you will need to share proof with your counselor This requirement must be reviewed with your merit badge counselor. BE PREPARED!
Notes:	







REQUIREMENT 7d:

Study a soil survey report. Describe the things in it. Using tracing paper and a pen, trace over any of the soil maps, and outline an area with three or more different kinds of soil. List each kind of soil by full name and map symbol.

If choosing this requirement option, you will need to share proof with your counselor

This requ	uirement must be reviewed with your merit badge counselor. BE PREPARED!
Notes:	
REQUIREMENT 7e:	Make a list of places in your neighborhood, camps, school ground, or park that have erosion, sedimentation, or pollution problems. Describe how these could be corrected through individual or group action.
Notes:	







REQUIREMENT 7f:	Carry out any other soil and water conserva	ation project ap	prov	ed by your counselor.
COUNSELOR APPROVAL: I	S REQUIRED.			
Counselor's Name		Phone or Email		
Counselor's Signature		Date		approved
Notes:				